

FIG. 1

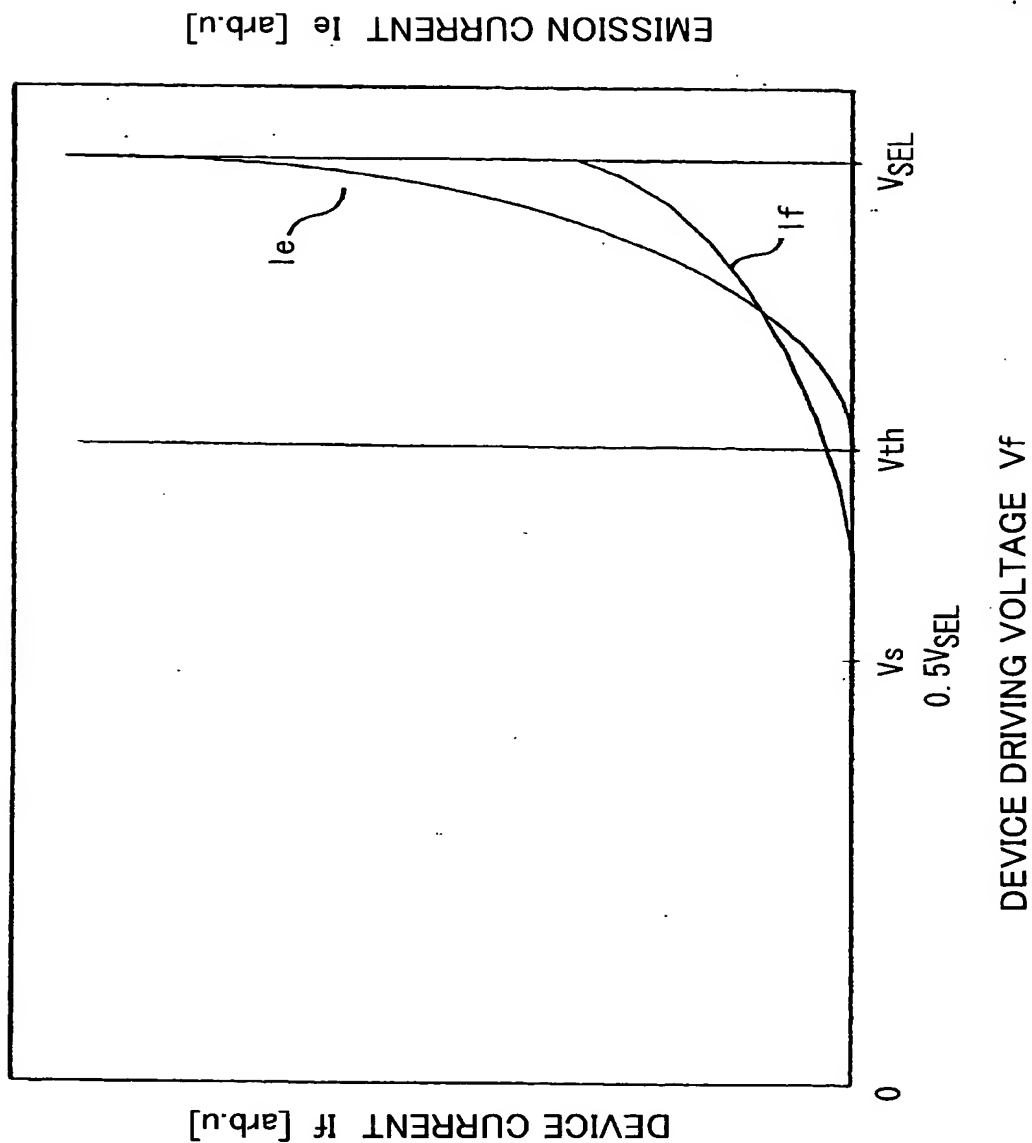
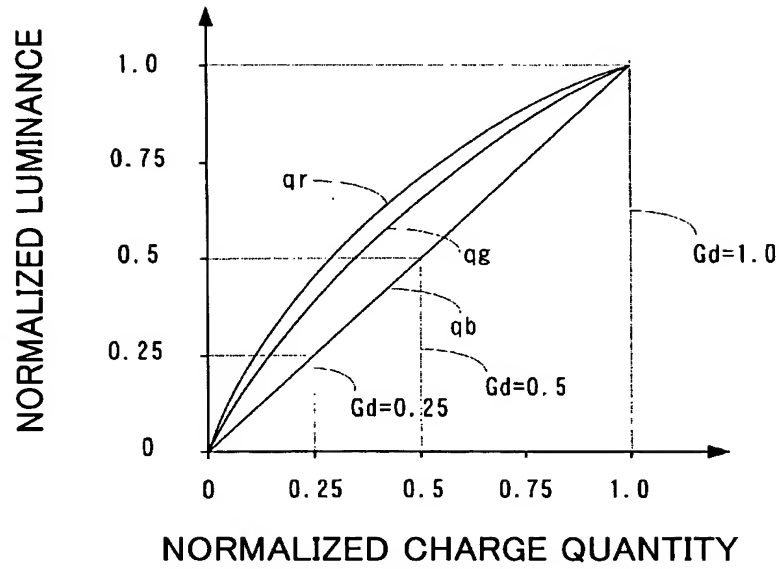
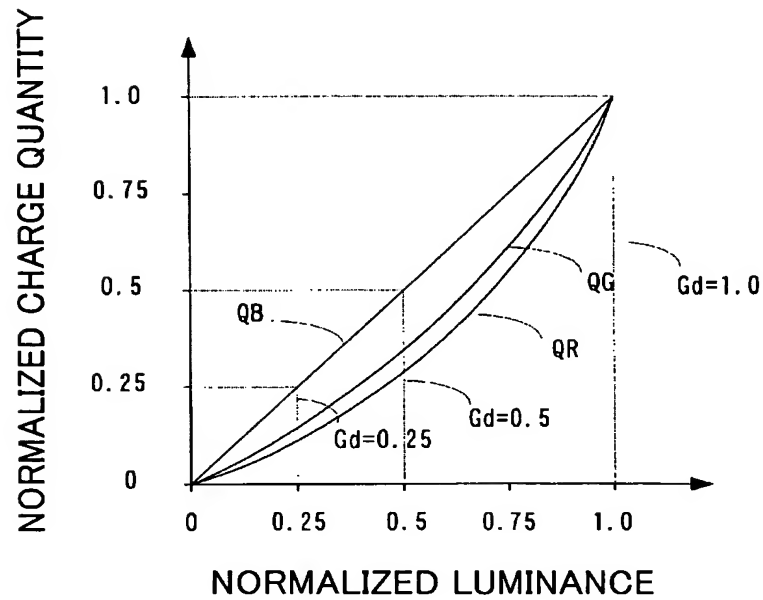


FIG. 3

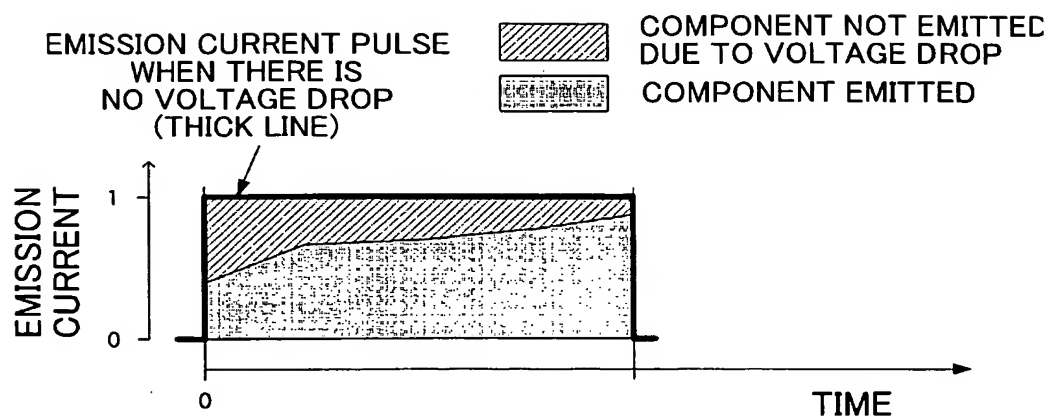


(a)

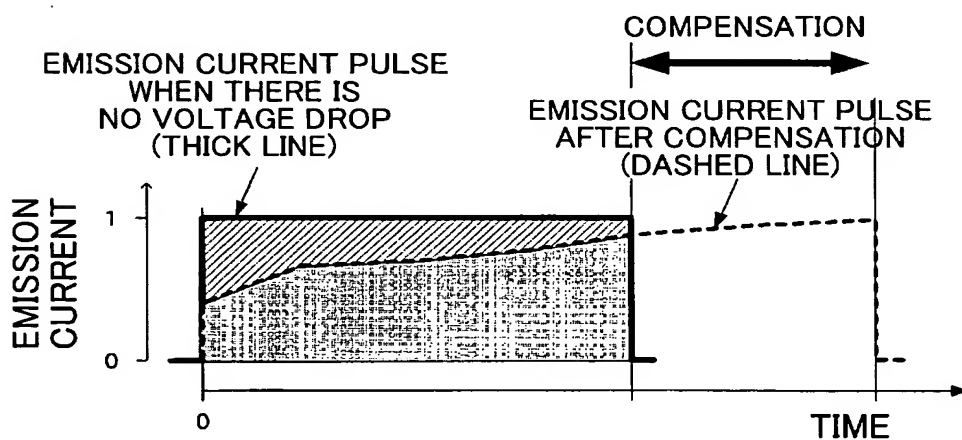


(b)

FIG. 4



(a)



CHARGE QUANTITY SHOWN WITH THICK LINE
= CHARGE QUANTITY SHOWN WITH DASHED LINE

(b)

FIG. 5

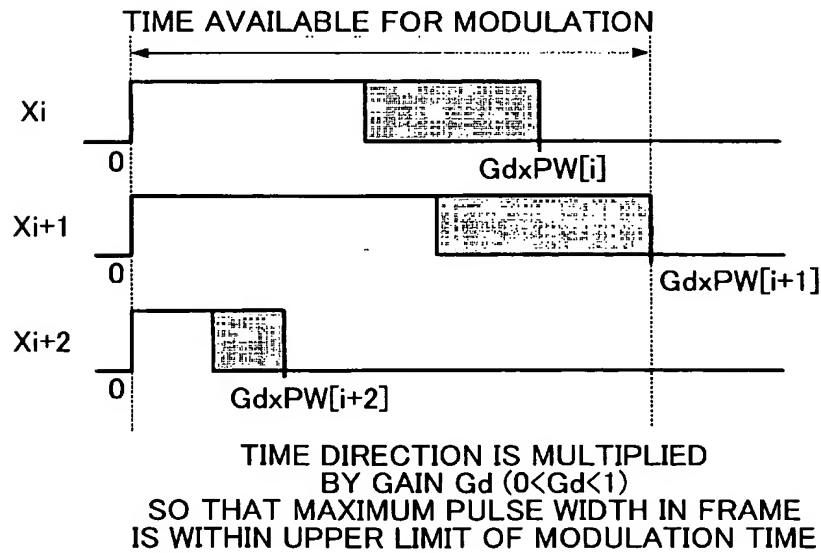
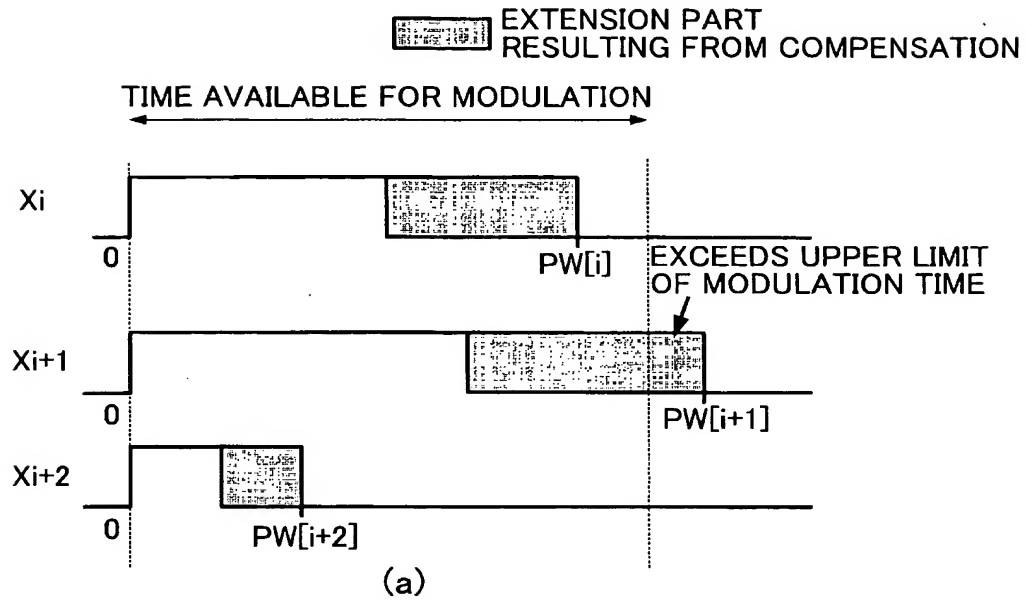


FIG. 6

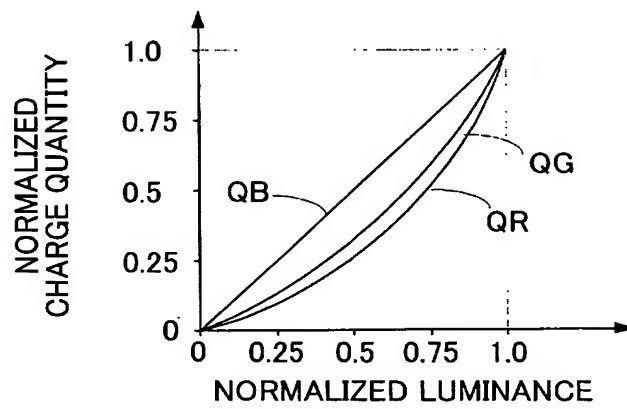
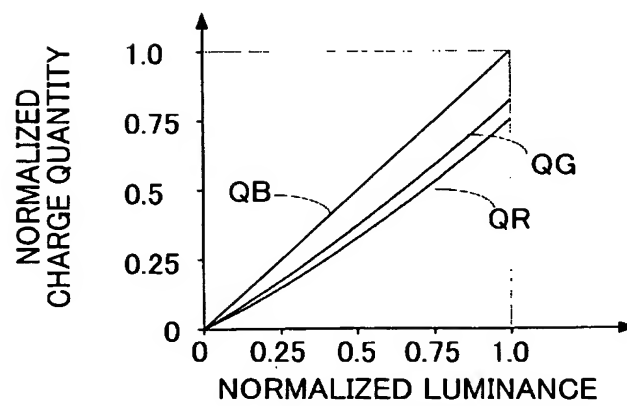
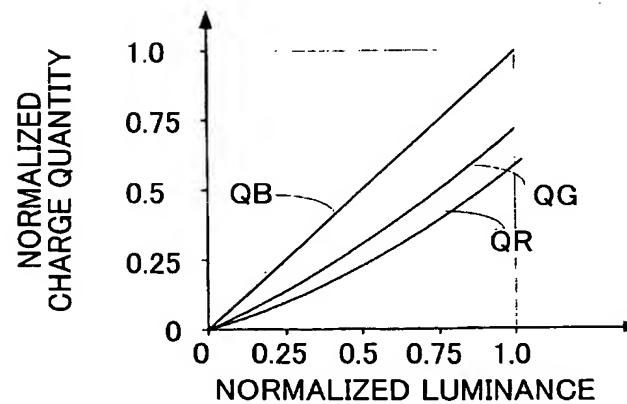
(a) GAIN $G_d = 1.0$ (b) GAIN $G_d = 0.5$ (c) GAIN $G_d = 0.25$

FIG. 7A

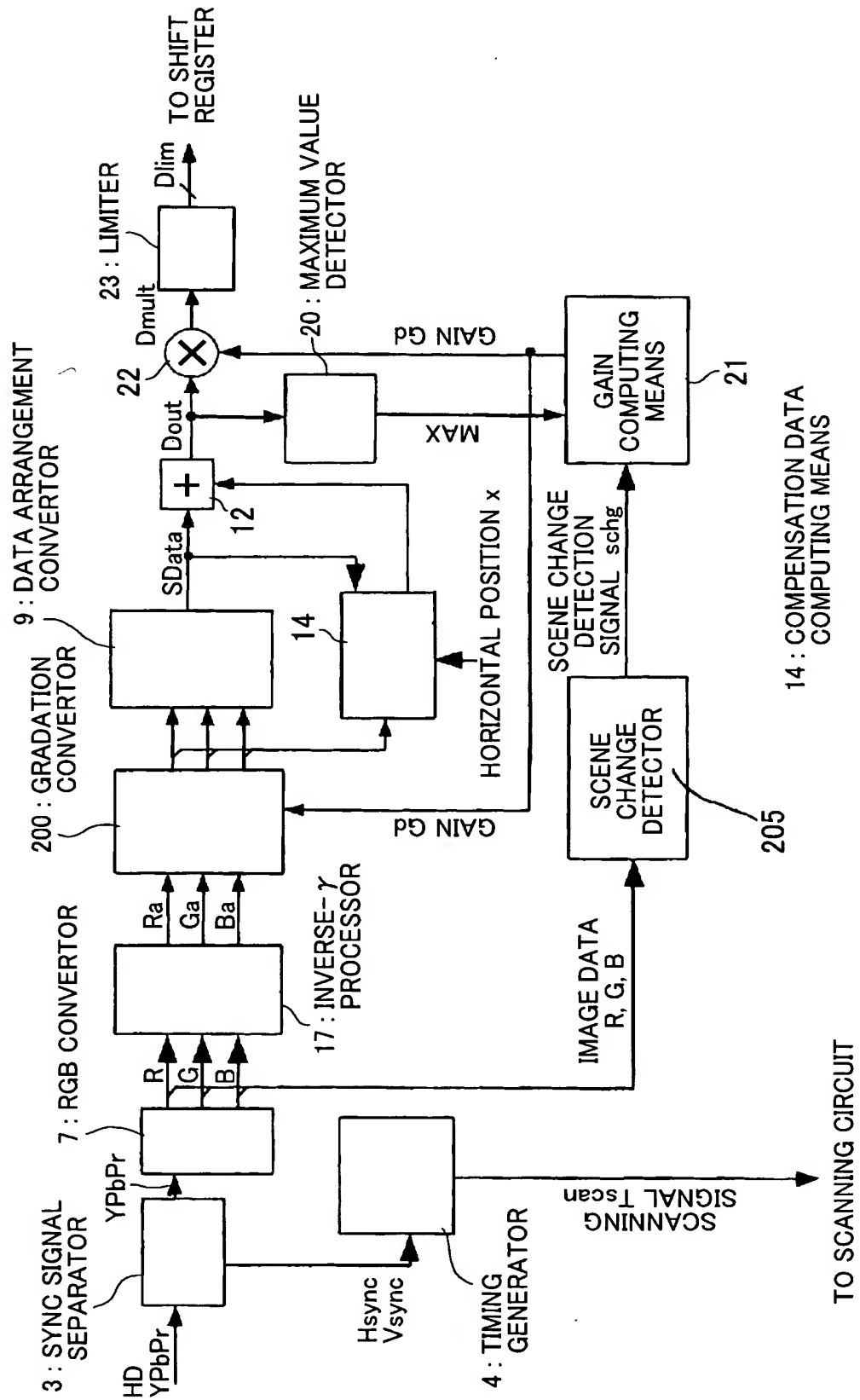


FIG. 7B

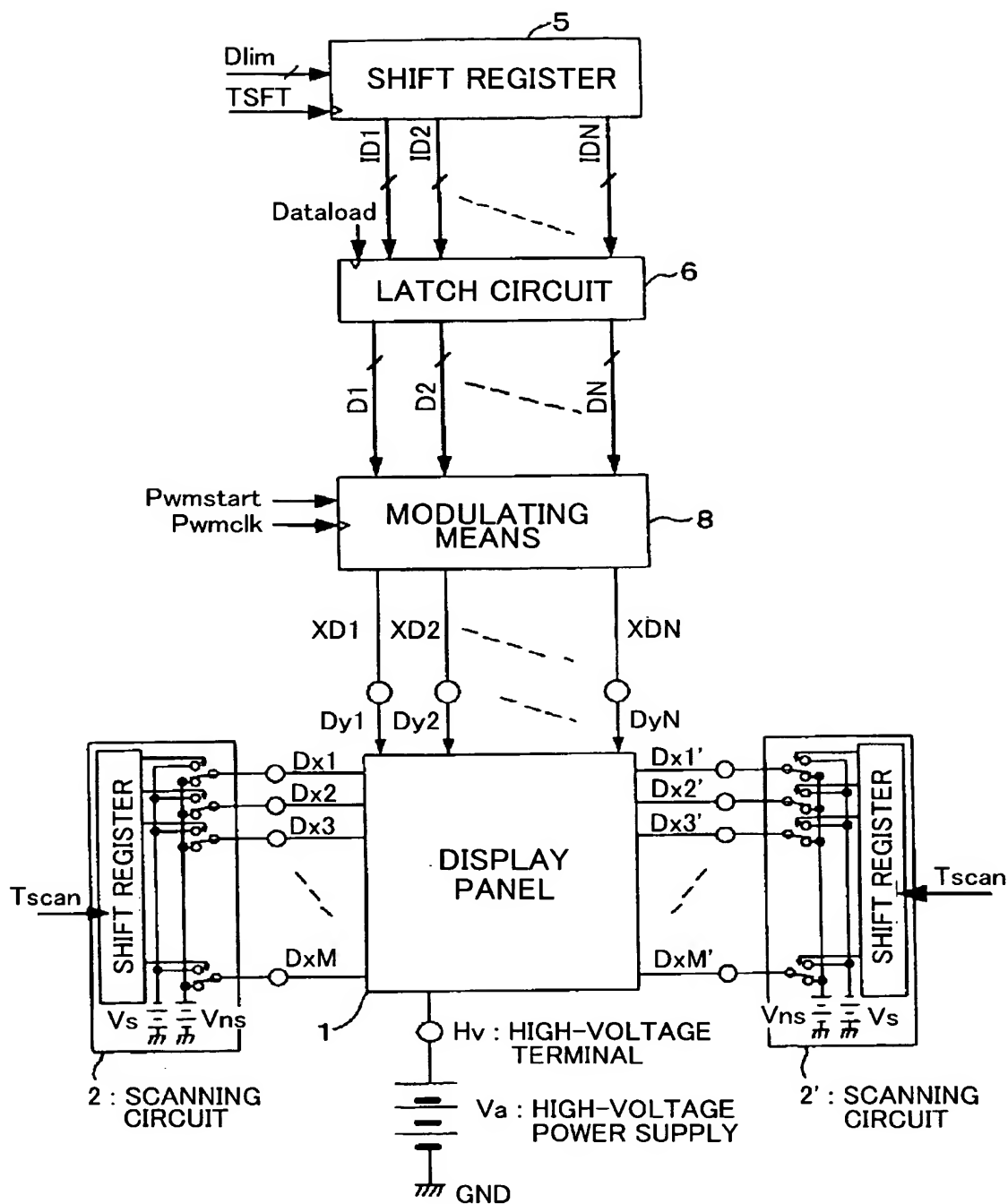


FIG. 8

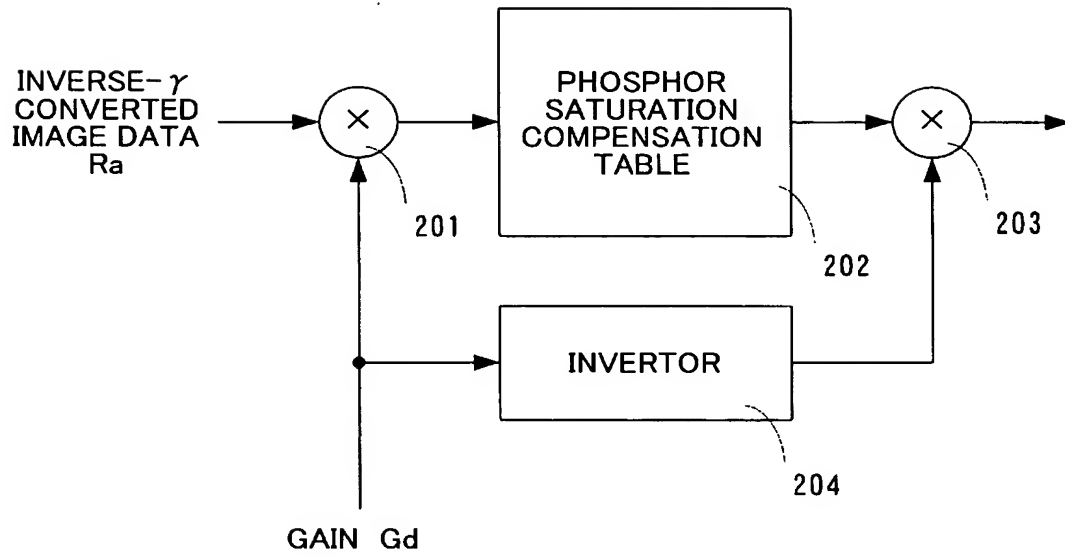


FIG. 9

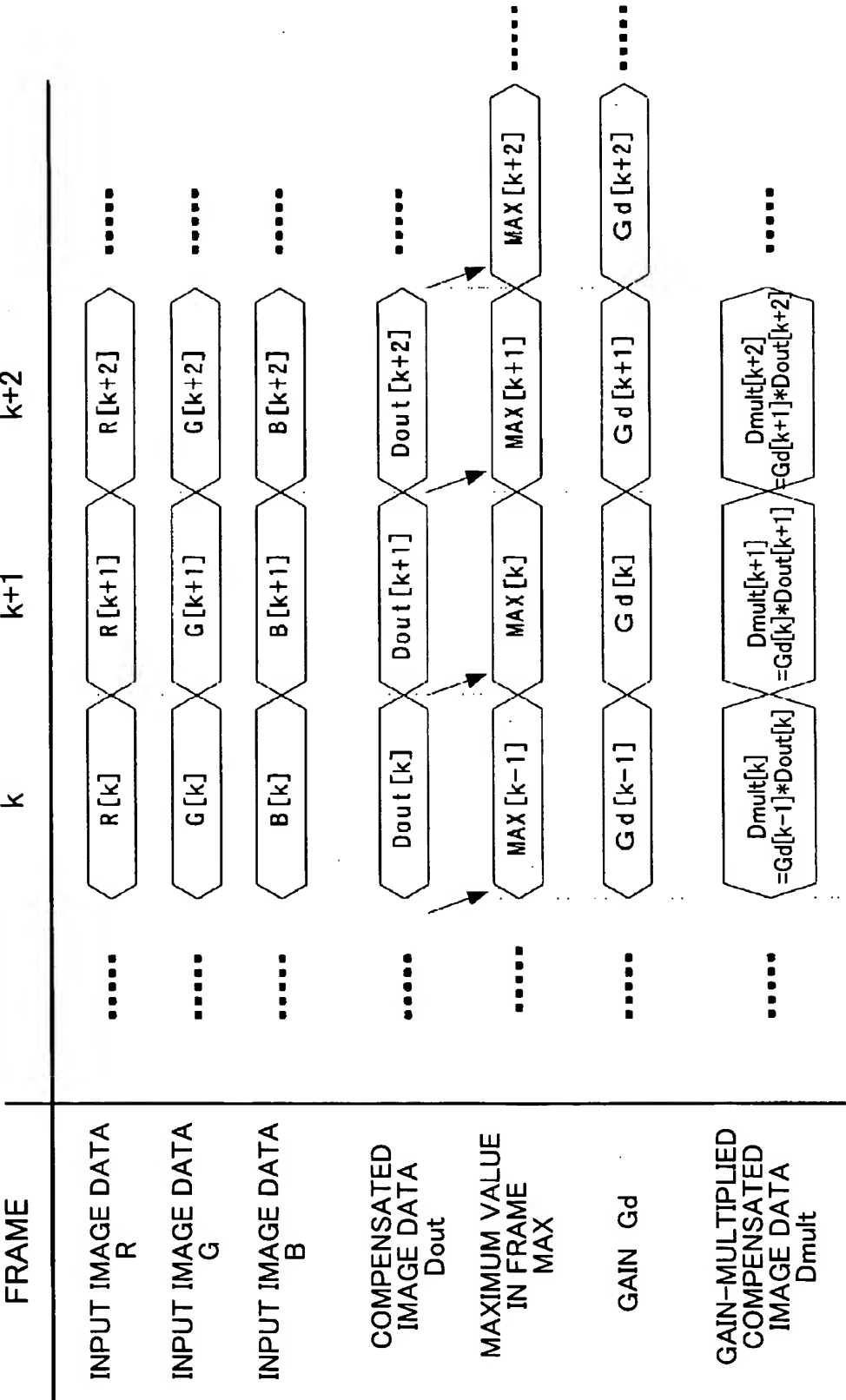


FIG. 10

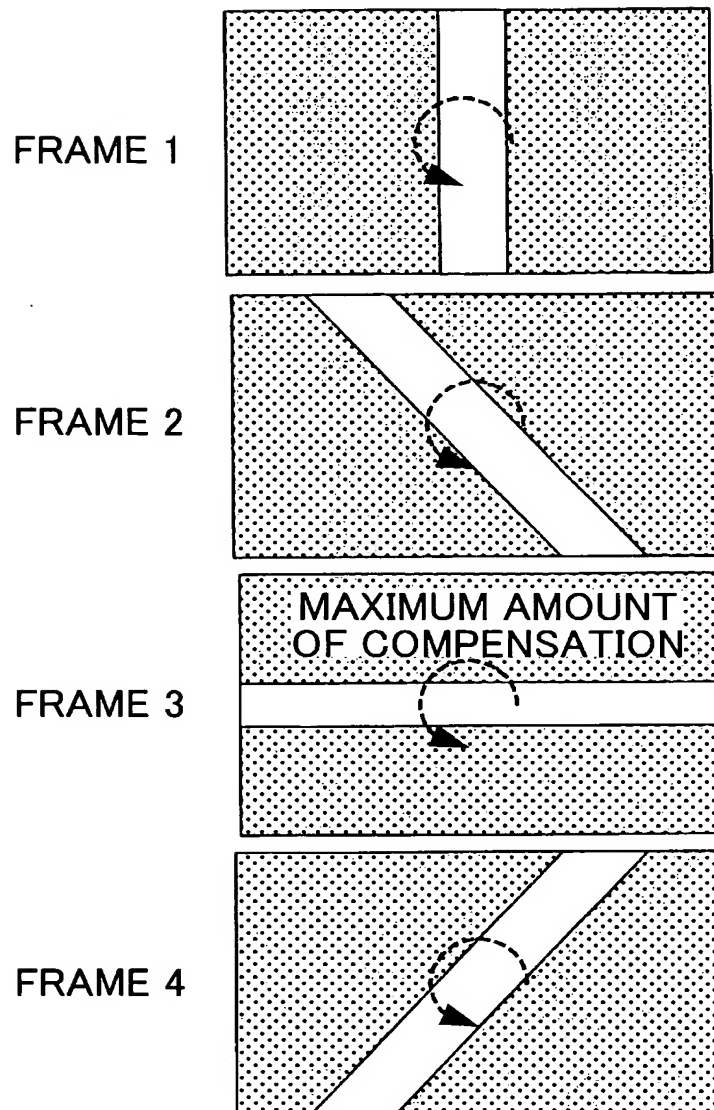


FIG. 11

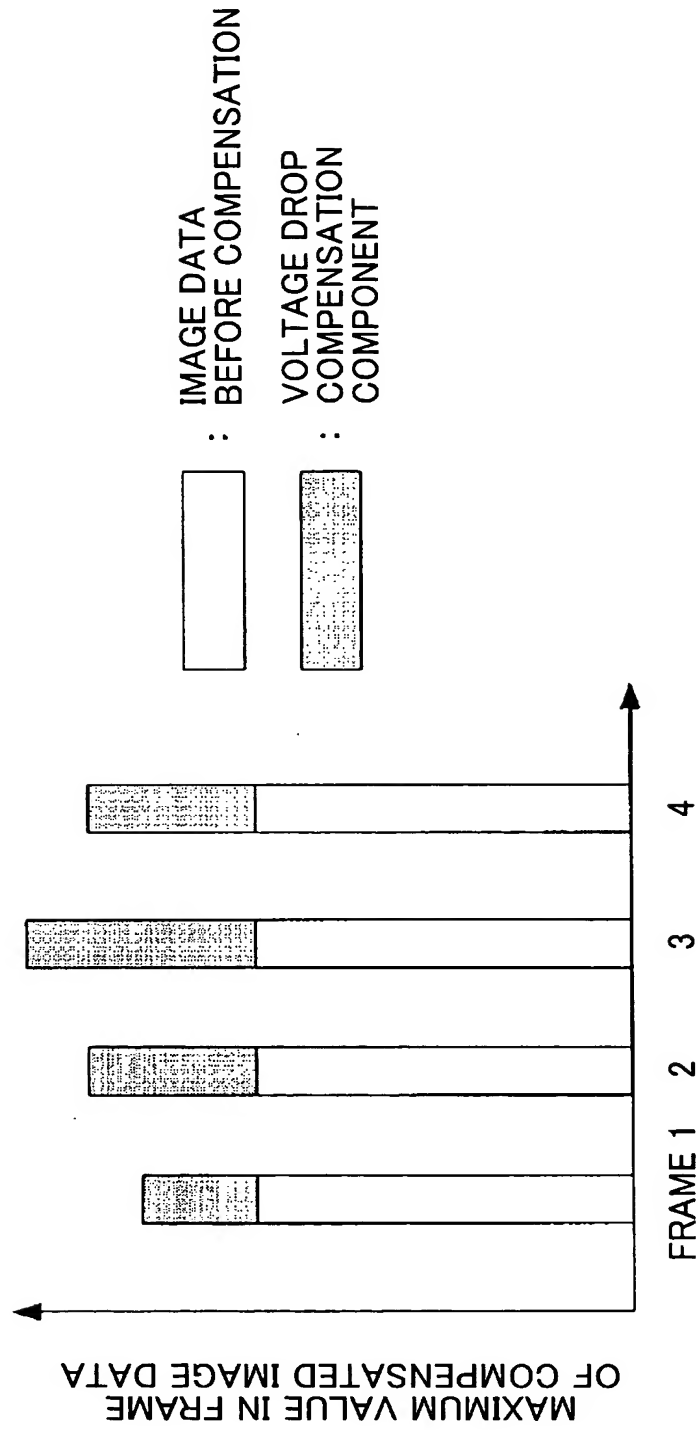
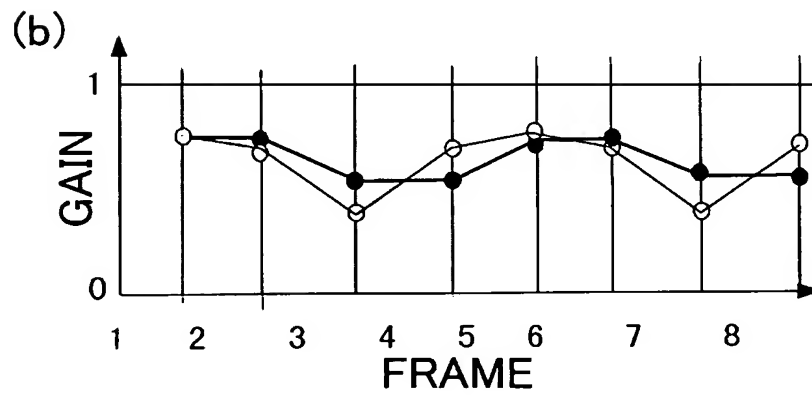
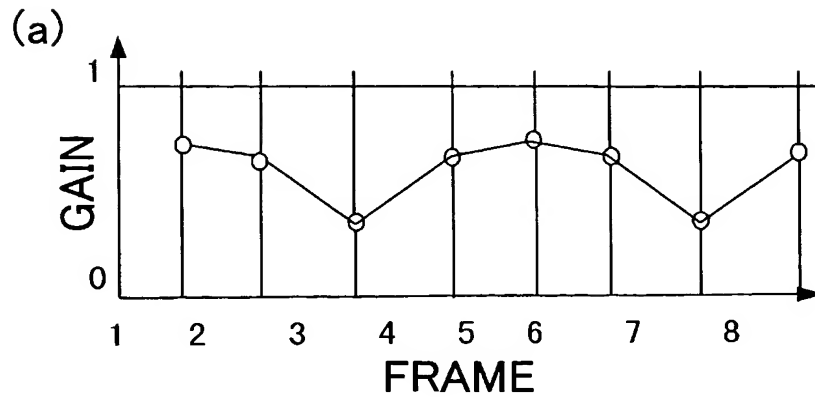


FIG. 12



○ : GAIN NOT SMOOTHED

● : GAIN SMOOTHED

FIG. 13A

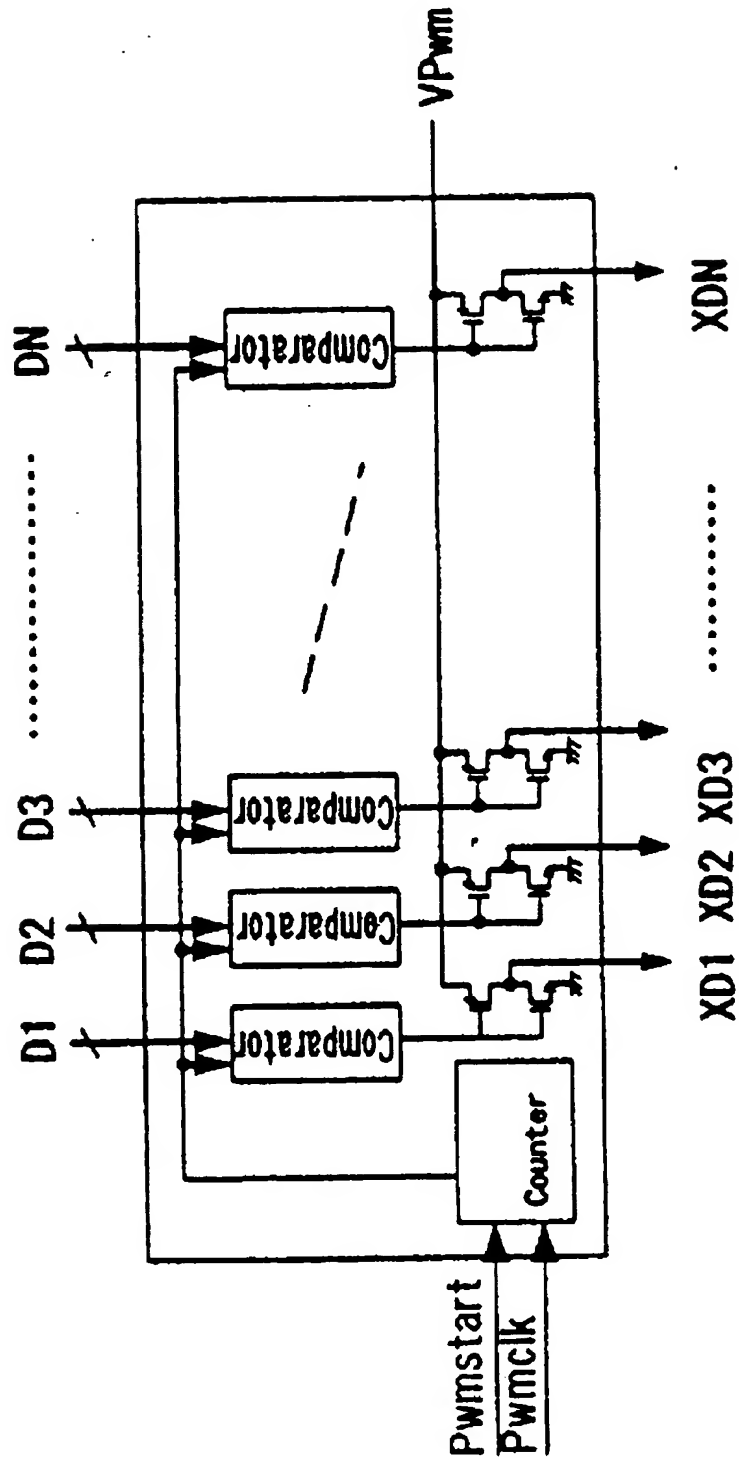


FIG. 13B

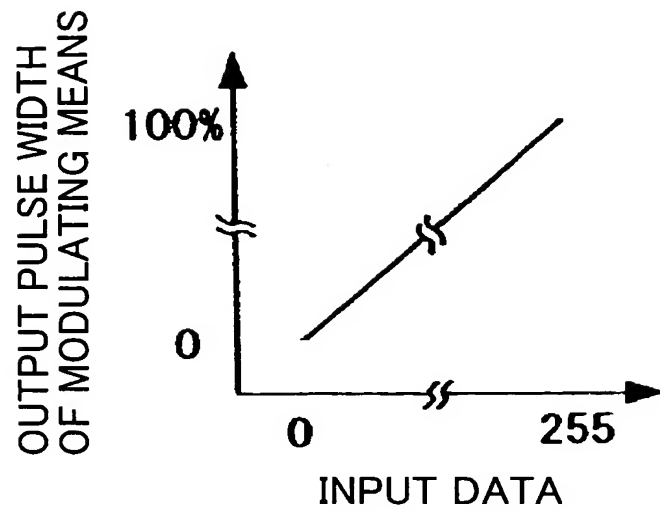


FIG. 13C

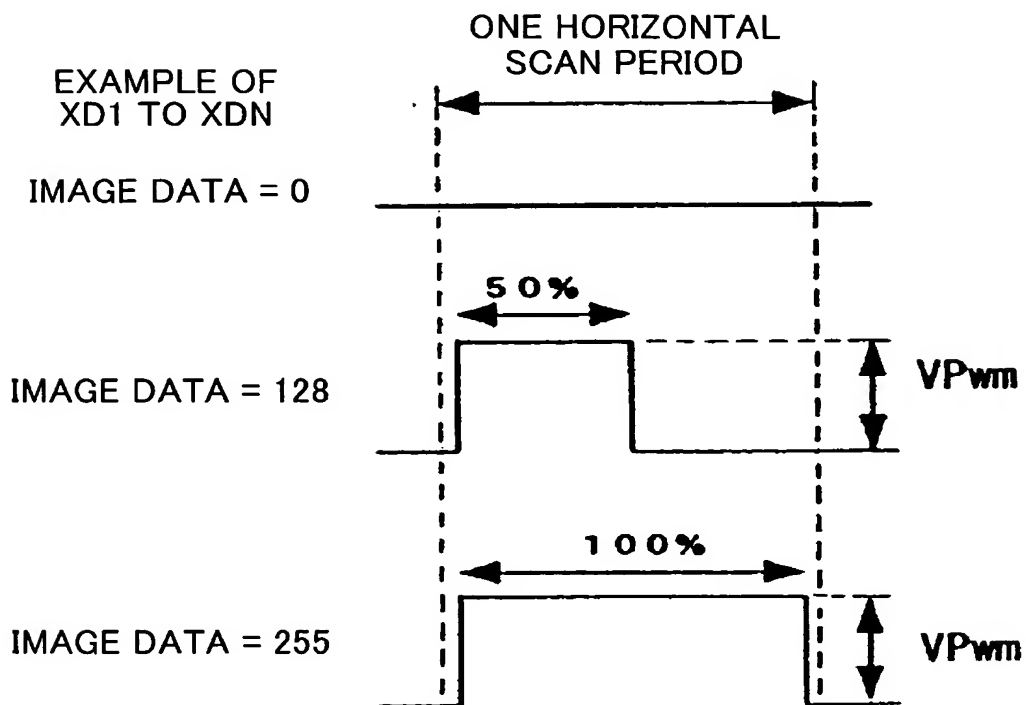


FIG. 14A

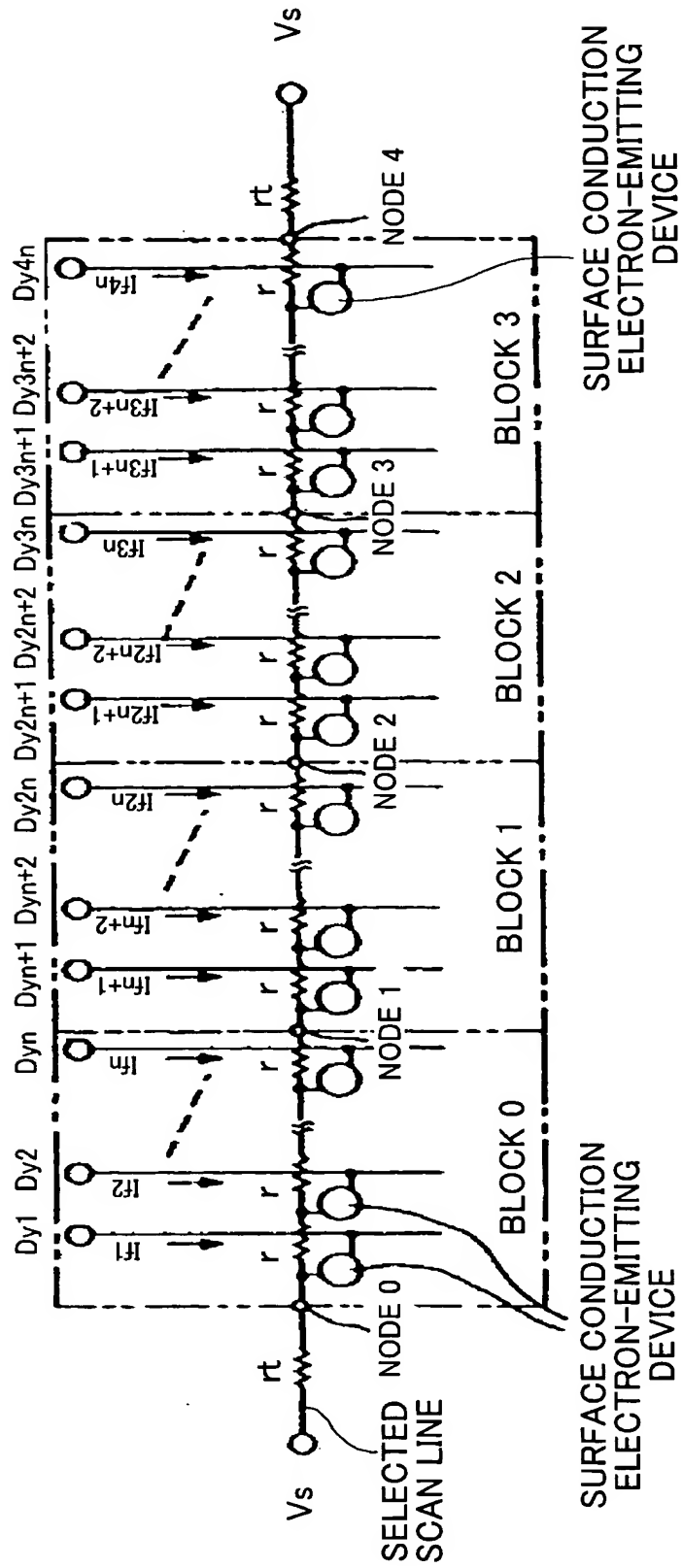


FIG. 14B

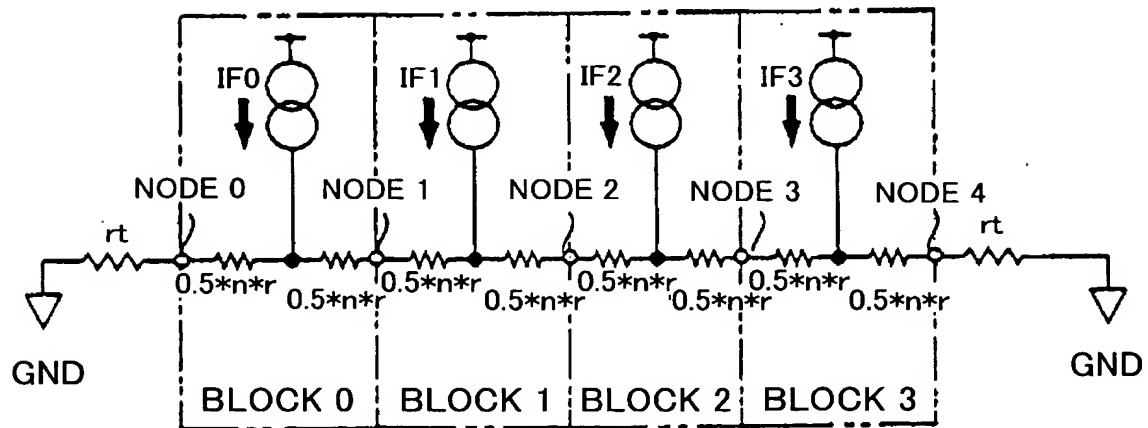


FIG. 14C

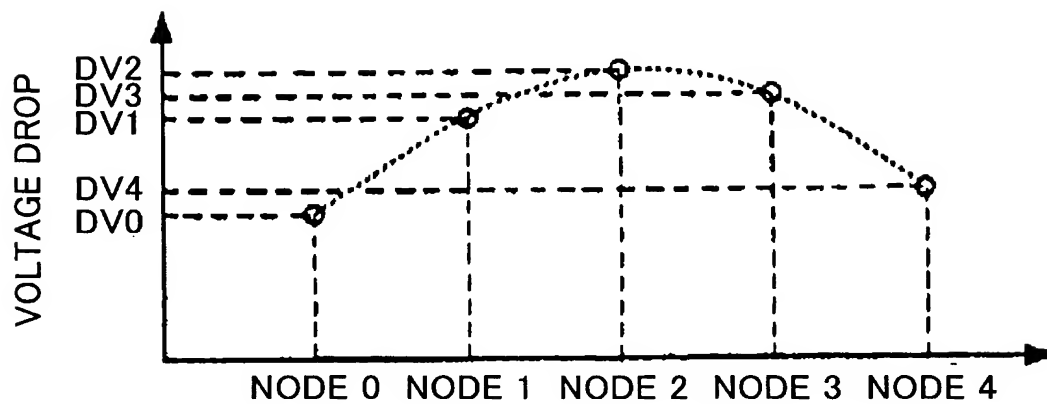


FIG. 15

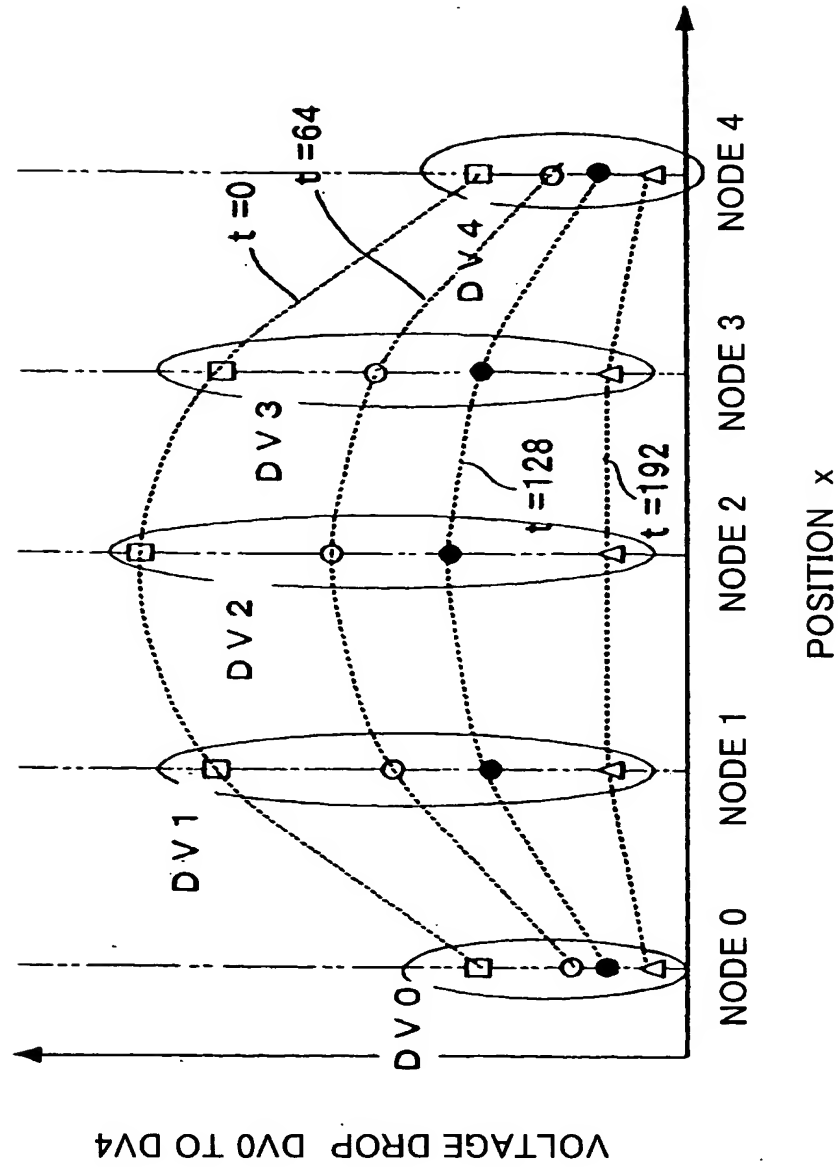


FIG. 16

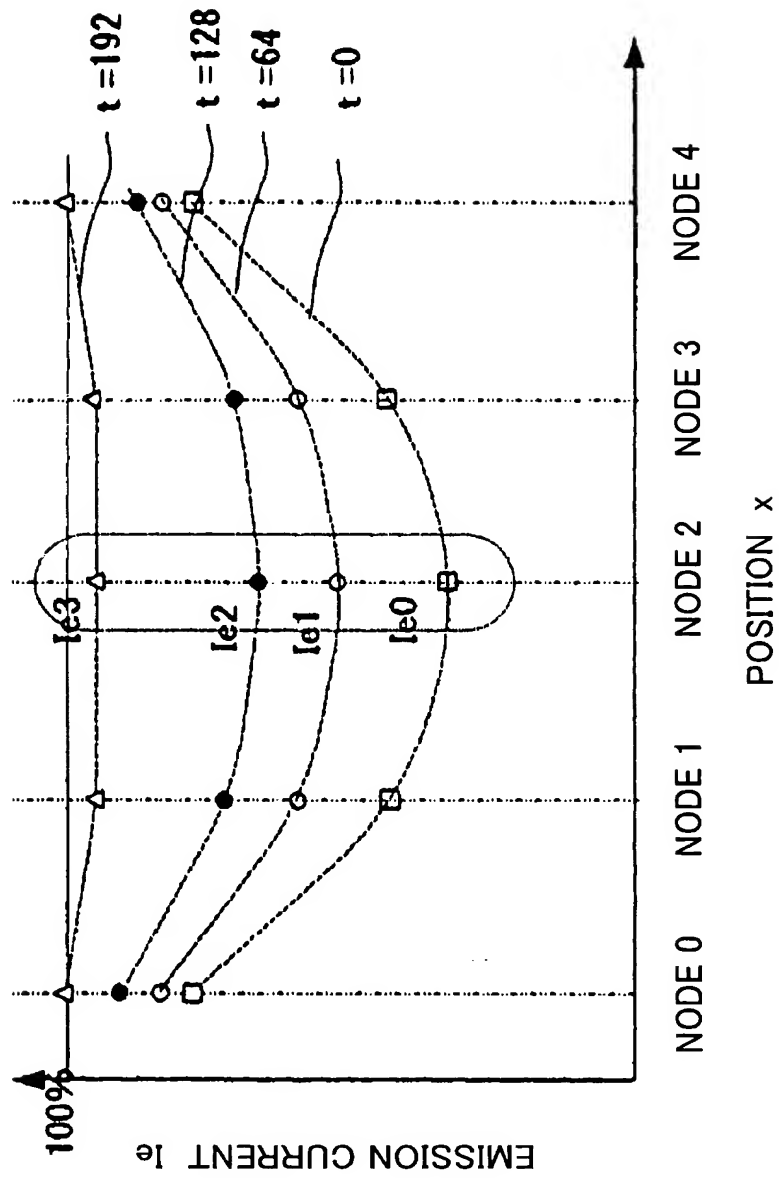


FIG. 17

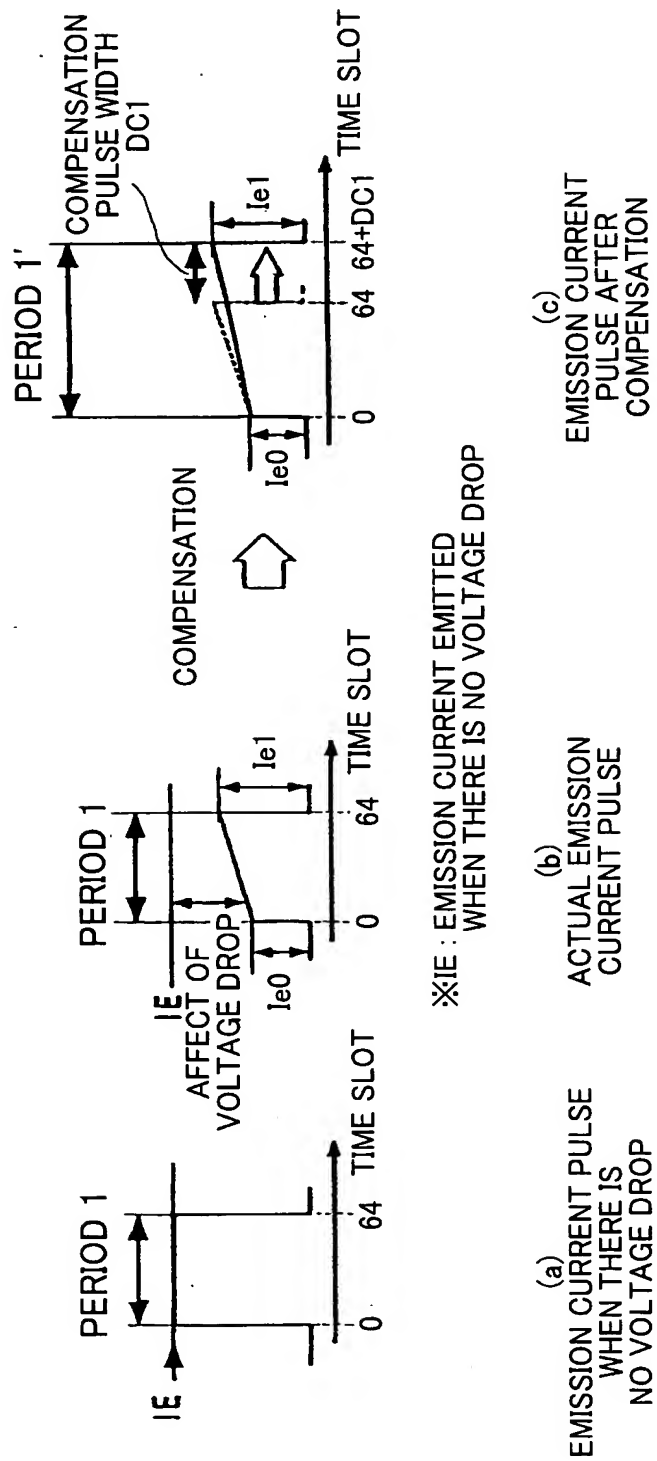
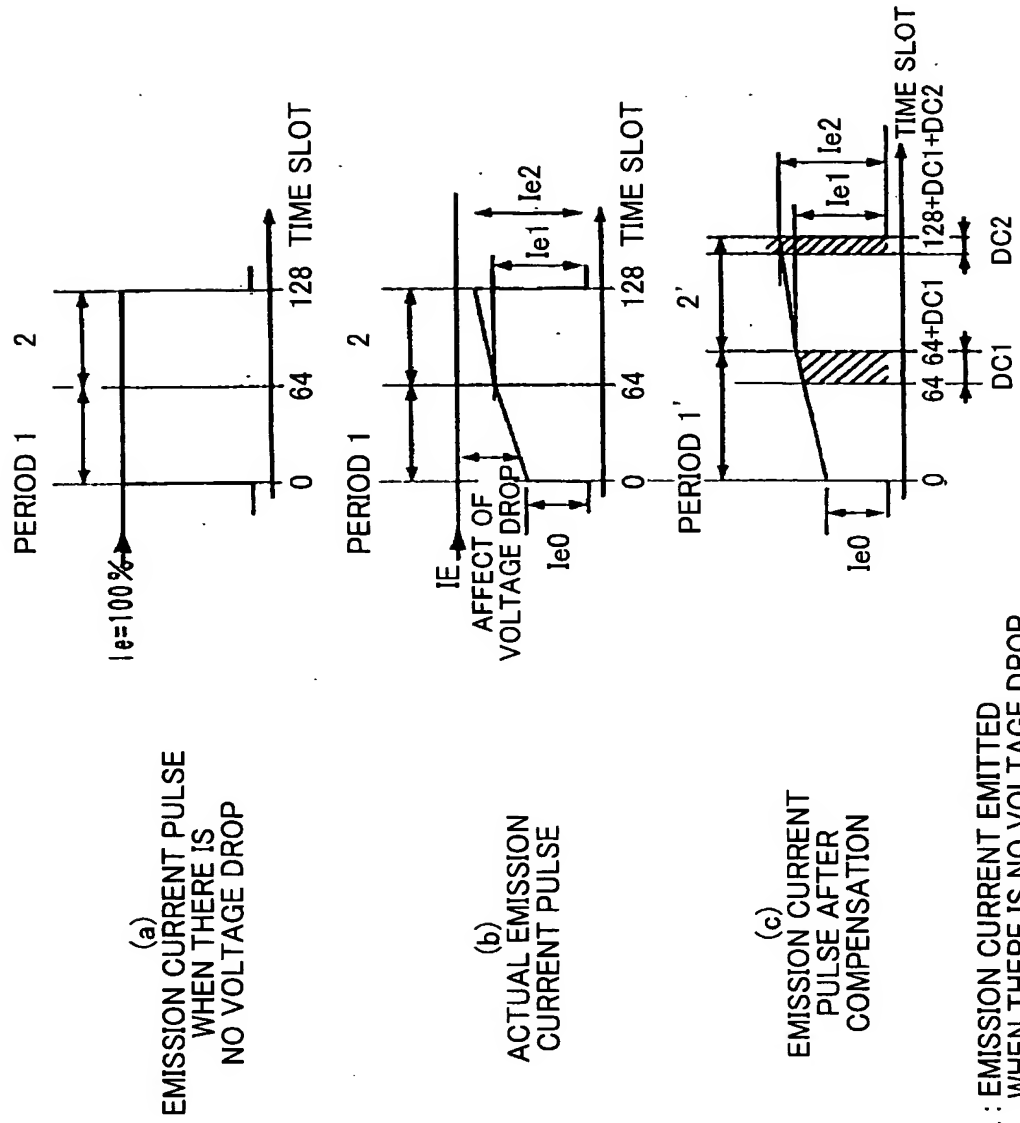


FIG. 18



※ I_E : EMISSION CURRENT EMITTED
WHEN THERE IS NO VOLTAGE DROP

FIG. 19

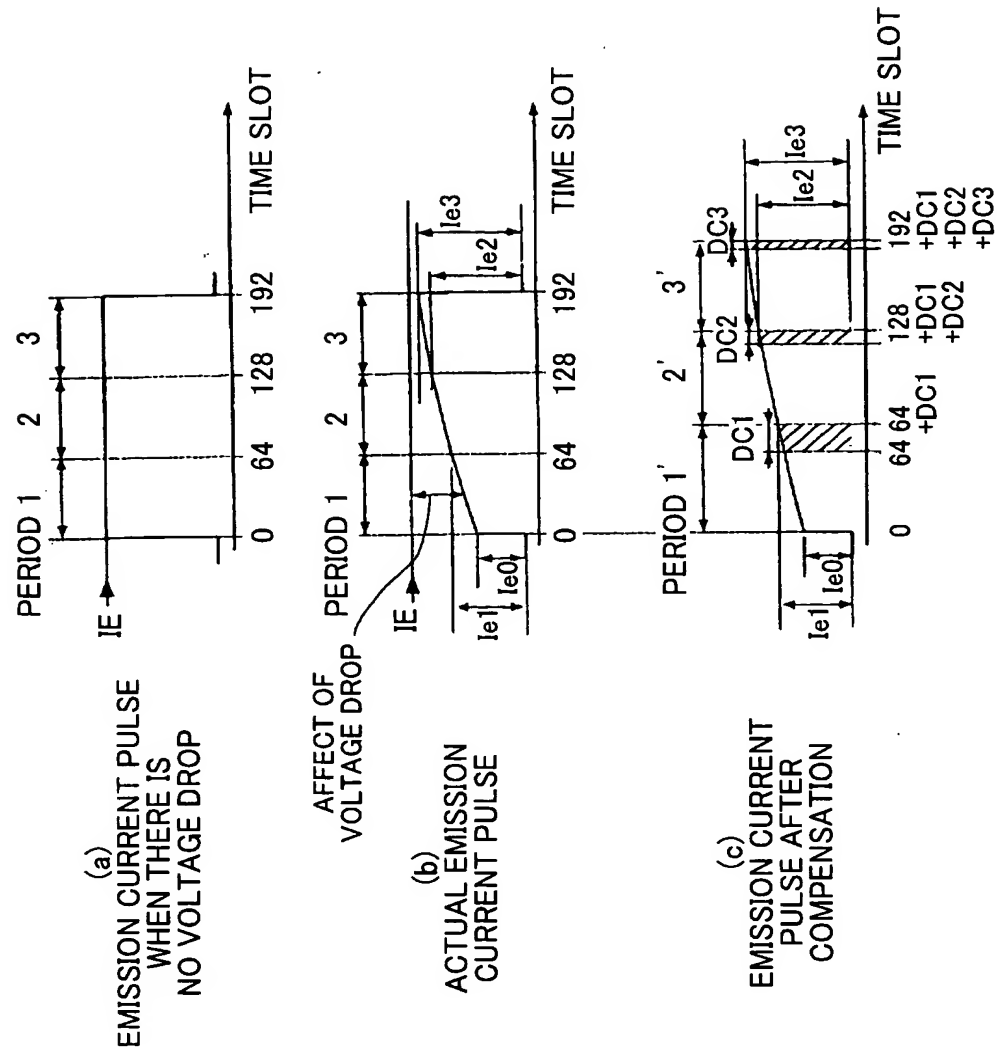


FIG. 20A

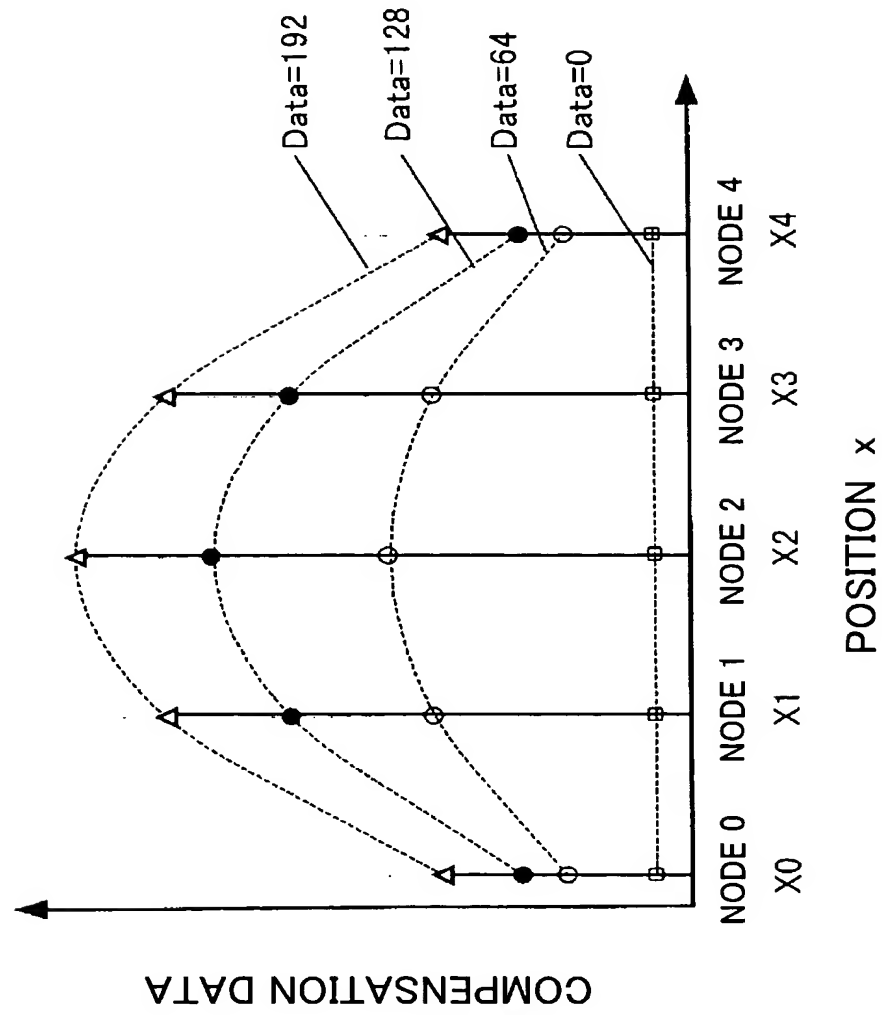
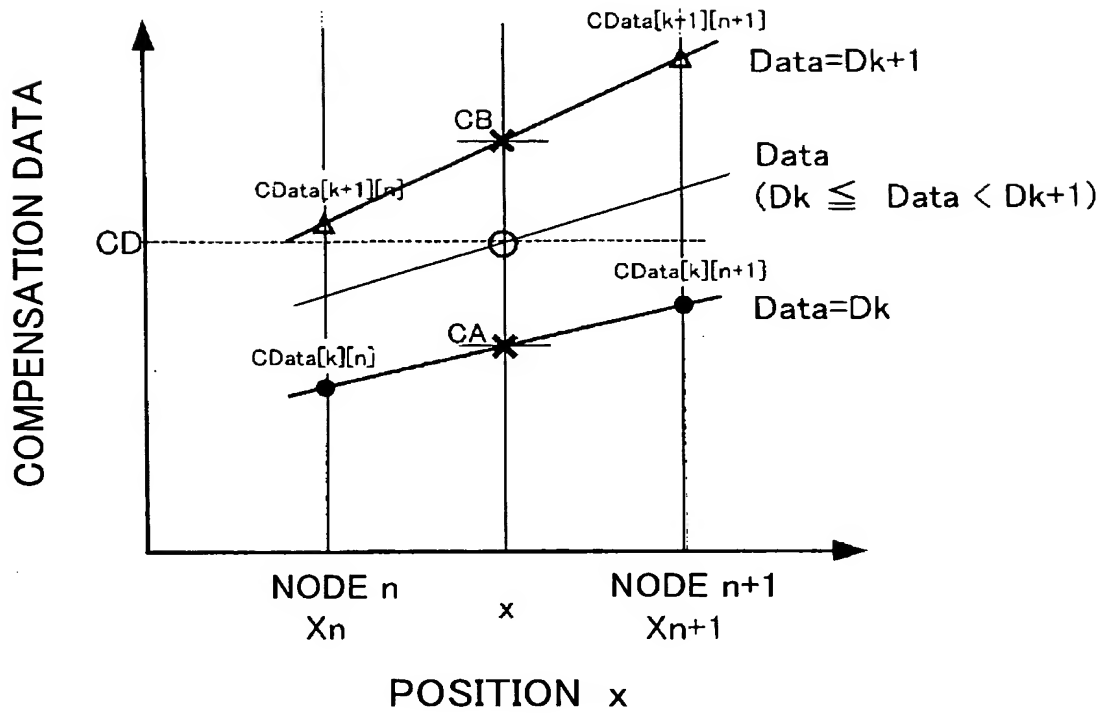


FIG. 20B



$$CA = ((X_{n+1}-x)*CData[k][n] + (x-X_n)*CData[k][n+1])/(X_{n+1}-X_n)$$

$$CB = ((X_{n+1}-x)*CData[k+1][n] + (x-X_n)*CData[k+1][n+1])/(X_{n+1}-X_n)$$

$$CD = CA*(D_{k+1}-data)+CB*(data-D_k)/(D_{k+1}-D_k)$$

FIG. 21A

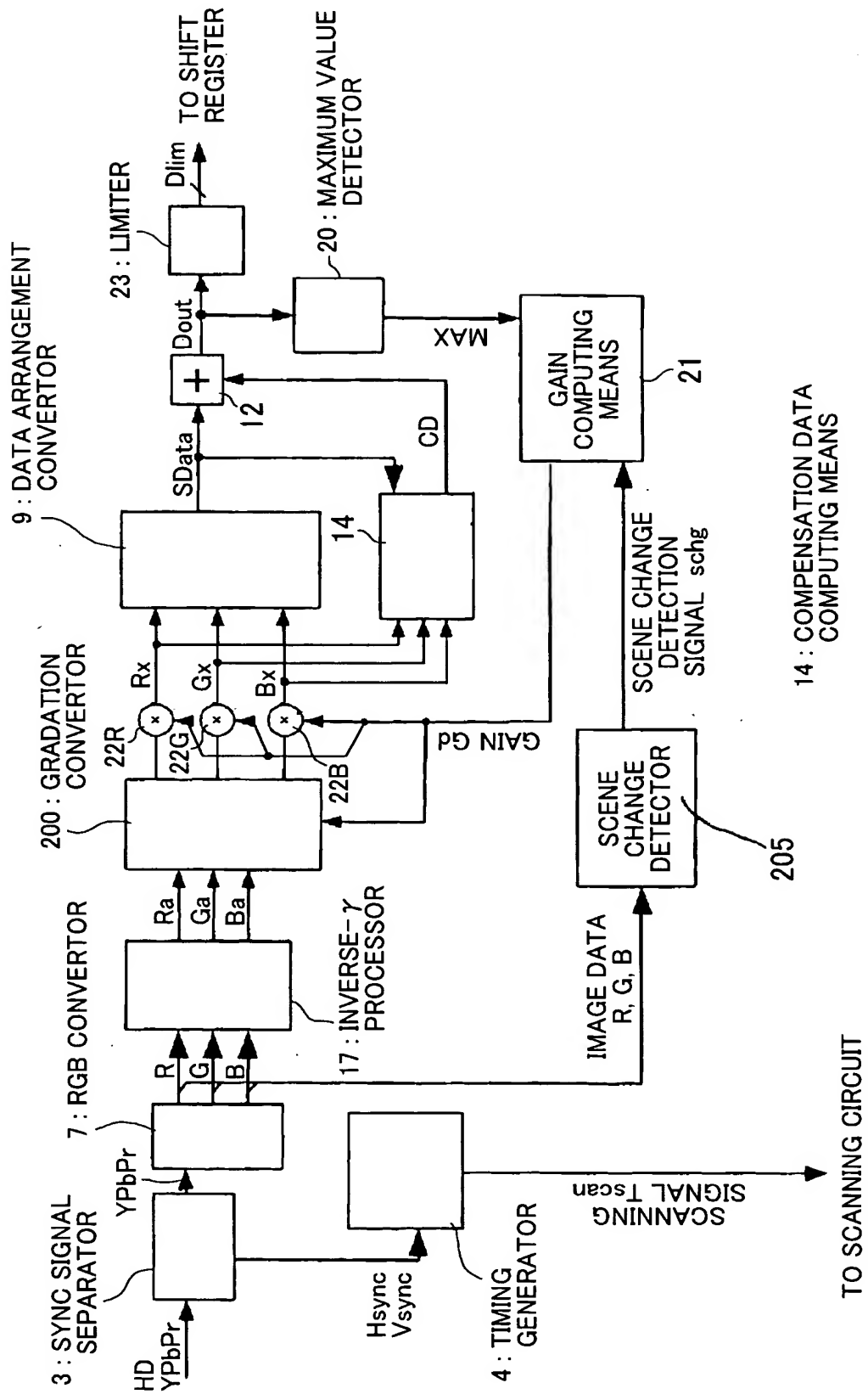


FIG. 21B

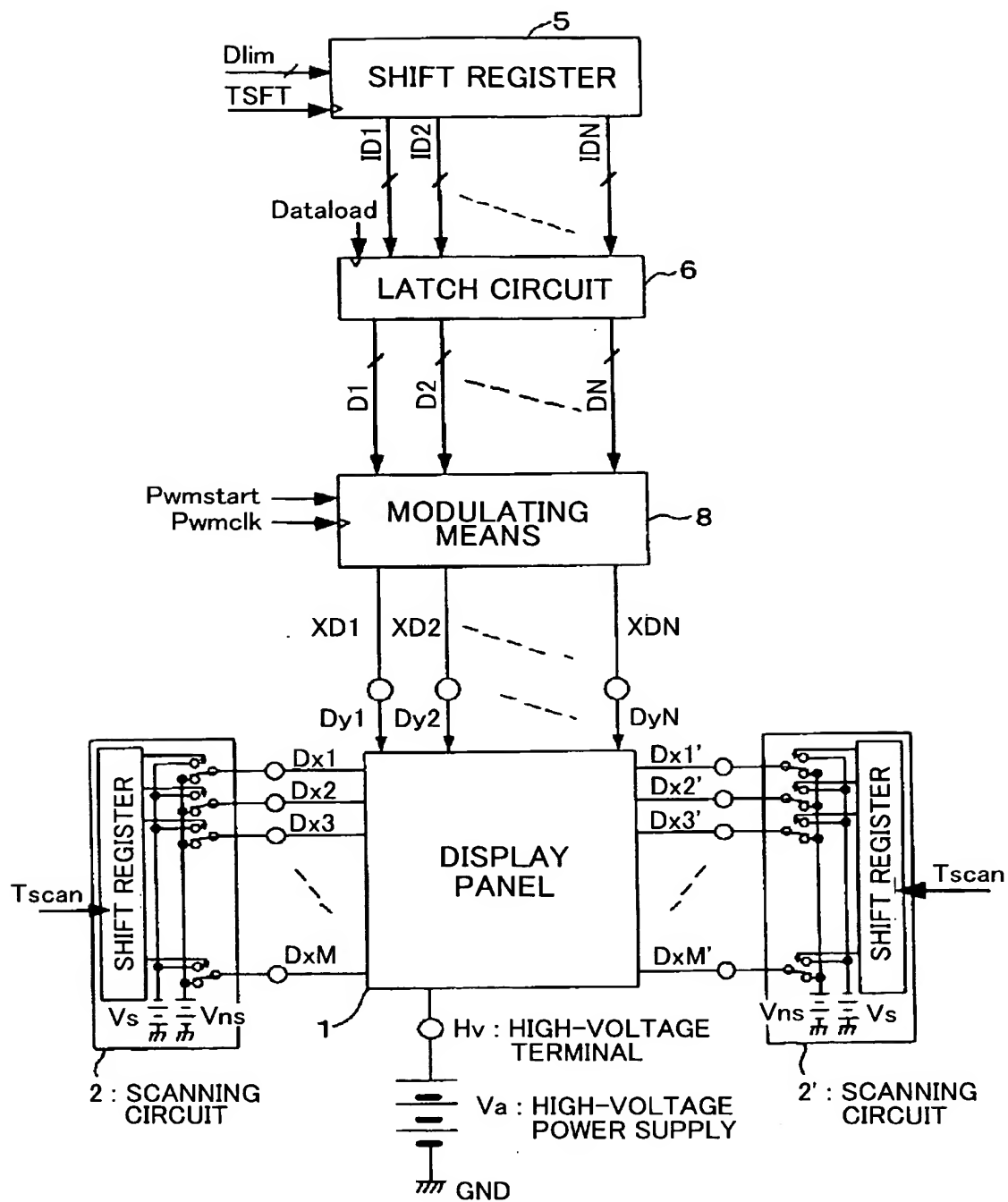


FIG. 22

